

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-126681

(43)Date of publication of application : 09.05.2000

(51)Int.Cl.

B05D 7/24
B05D 1/26

(21)Application number : 10-299372

(71)Applicant : MITSUBISHI CHEMICALS CORP

(22)Date of filing : 21.10.1998

(72)Inventor : SAIDA SOICHIRO
MAENOZONO SHINYA

(54) MANUFACTURE OF NANOPARTICLE THIN FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently manufacture a nanoparticle thin film without wasting nanoparticles by coating the top of a solid substrate by ink jet coating with a dispersion prepared by dispersing nanoparticles in an emulsion having an aqueous phase as a continuous phase and an oil phase as a dispersed phase.

SOLUTION: Nanoparticles such as semiconductor crystals of a group I-VII compound semiconductor such as CuCl, a group II-VI compound semiconductor such as CdS or CdSe, a group III-V compound semiconductor such as InAs or a group IV semiconductor are dispersed in an emulsion having an aqueous phase prepared by adding a water-soluble organic solvent such as ethylene glycol, propylene glycol or butylene glycol to water as a continuous phase and an oil phase as a dispersed phase. The top of a solid substrate is coated with the resultant dispersion by ink jet coating to manufacture the objective nanoparticle thin film.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office